

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remain(s) under examination in the application is presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or fewer characters; and 2. added matter is shown by underlining.

1. (Currently Amended) A method of programming an ambulatory infusion pump from a computer, the ambulatory infusion pump programmed to execute a delivery program, the delivery program being driven by operating parameters, the method comprising:

generating a table on a user interface displayed by the computer the computer having a computer peripheral, the table containing a row, the row having a plurality of cells, each cell in the row relating to a different operating parameter for the delivery program;

entering an operating parameter into at least one of the cells in the table, the operating parameter being entered directly into the at least one of the cells through the computer peripheral; and

downloading the operating parameters into the pump by:

transmitting the operating parameters over a communication link from the computer to the pump;

returning the operating parameters over a communication link from the pump back to the computer; and

verifying that the operating parameters transmitted from the computer to the pump match the operating parameters returned from the pump to the computer.

2. (Previously Presented) The method of claim 1, the act of generating a table further comprising generating a table, the table comprising a plurality of rows, each row relating to a different set of operating parameters, each set of operating parameters defining a different delivery schedule for the pump.

3. (Previously Presented) The method of claim 2, the act of generating a table further comprising generating table, the table comprising at least one cell within each row relating to a unique identifying name, wherein the unique identifying name identifies the operating parameters in the same row of as the unique identifying name.
4. (Previously Presented) The method of claim 3, the act of downloading the operating parameters into the pump further comprising downloading the operating parameters into memory on a pump, the pump being programmed with a delivery program.
5. (Previously Presented) The method of claim 4 further comprising running the delivery program and executing the operating parameters.
6. (Previously Presented) The method of claim 3 further comprising:
downloading all of the operating parameters to the infusion pump; and
storing the operating parameters in the memory.
7. (Previously Presented) The method of claim 6 further comprising:
selecting one unique identifying name; and
running the delivery program and executing at least some of the operating parameters identified by the selected unique identifying name.

8. (Currently Amended) A method of operating a pump, the pump having a memory and a pump mechanism, the method comprising:

receiving from a computer, a plurality of data sets, each dataset in the plurality of data sets containing a plurality of operating parameters, each data set in the plurality of data sets comprising the same type of operating parameters and at least two of the data sets contain different values for the same type of operating parameter, each data set in the plurality of data sets containing a user-defined identifying name;

storing the plurality of data sets in memory;

selecting the user-defined identifying name of one of the plurality of data sets, thereby assigning the set of operating parameters identified by the user-defined identifying name to a delivery program; and

running [[a]] the delivery program wherein the delivery program executes the operating parameters in the selected one of the plurality of data sets, the operating parameters defining a delivery schedule for controlling the pump mechanism.

9. (Currently Amended) An apparatus for programming an infusion pump, the pump programmed to execute a delivery program, the delivery program programmed to process operating parameters, the operating parameters defining operation of the pump, the apparatus comprising:

a data port;

a data entry device; and

a processor in data communication with the data port and the data entry device, the processor programmed to

(a) generate a table on a user interface, the table containing a row, the row having a plurality of cells, each cell in the row relating to a different operating parameter for the delivery program;

(b) receive at least one operating parameter directly from the data entry device and display the data in one or more of the cells; and

(c) download the received operating parameters displayed in the cells to the infusion pump by:

transmitting the operating parameters over a communication link from the apparatus to the pump;

returning the operating parameters over a communication link from the pump back to the apparatus; and

verifying that the operating parameters transmitted from the apparatus to the pump match the operating parameters returned from the pump to the apparatus.

10. (Original) The apparatus of claim 9 wherein the processor is further programmed to generate a plurality of rows in the table, each row relating to a different set of operating parameters, each set of operating parameters defining a different delivery schedule for the pump.

11. (Previously Presented) The apparatus of claim 10 wherein each row in the table includes at least one cell relating to a unique identifying name, wherein the unique identifying name identifies the operating parameters in the same row as the unique identifying name.

12. (Currently Amended) A method of operating an infusion pump for delivering a therapeutic agent into a body of a person, the infusion pump being programmable and including memory, the infusion pump being programmed to run a delivery program, the delivery program controlling the infusion pump to deliver the therapeutic agent according to a delivery schedule, the method comprising:

storing a data set in the memory, the data set including a set of operating parameters defining a delivery schedule, at least one of the operating parameters being a user-defined identifying name;

selecting the user-defined identifying name thereby assigning the set of operating parameters identified by the user-defined identifying name to the delivery program; and

running the delivery program, the delivery program executing the set of operating parameters thereby controlling the infusion pump to deliver the therapeutic agent according to the delivery schedule defined by the set of operating parameters.

13. (Original) The method of claim 12 further comprising downloading the data set to the pump from a computer.

14. (Previously Presented) The method of claim 12, the act of storing a data set in the

memory further comprising, storing two or more data sets in the memory, each data set including a set of operating parameters defining a delivery schedule.

15. (Previously Presented) The method of claim 14 further comprising:

generating a menu, the menu including at least one menu item corresponding to one of the user-defined identifying names; and

the act of selecting the user-defined identifying name further comprising selecting the menu item.

16. (Previously Presented) The method of claim 12, the act of storing a data set in the memory further comprising storing a plurality of data sets in memory, each data set including a set of operating parameters defining a separate delivery schedule.

17. (Previously Presented) The method of claim 16, the act of generating a menu further comprises generating a menu having at least one menu item corresponding to a user-defined identifying name from one data set and at least one menu item corresponding to a user-defined identifying name from another data set.

18. (Original) The method of claim 17 further comprising switching execution of the delivery program from the set of operating parameters in one data set to the set of operating parameters in another data set.

19. (Previously Presented) An infusion pump comprising:
a pump mechanism;
memory storing a data set, the data set including a set of operating parameters defining a delivery schedule, at least one of the operating parameters being a user-defined identifying name;
and
a processor arranged to control the pump mechanism and in data communication with the memory, the processor being programmed to assign the set of operating parameters to the delivery program upon selection of the user-defined identifying name and to execute the set of operating parameters thereby controlling the pump mechanism to deliver the therapeutic agent according to the delivery schedule.
20. (Original) The infusion pump of claim 19 further comprising a data port, the processor being further arranged to control downloading of the data set and storage of the data set into the memory.
21. (Previously Presented) The infusion pump of claim 19, the memory further storing two or more data sets in the memory, each data set including a set of operating parameters defining a delivery schedule.
22. (Previously Presented) The infusion pump of claim 21, the processor being further programmed to:

generate a menu, the menu including at least one menu item corresponding to one of the user-defined identifying names, selecting the menu item being is at least one step in beginning execution of the delivery program.

23. (Previously Presented) The infusion pump of claim 19, the memory further storing two or more data sets, each data set including a set of operating parameters defining a separate delivery schedule.

24. (Previously Presented) The infusion pump of claim 23, the processor being further programmed to generate a menu, the menu including at least one menu item corresponding to a user-defined identifying name from one data set and at least one user-defined identifying name from another data set.

25. (Previously Presented) The infusion pump of claim 24, the processor being further programmed to switch execution of the delivery program from the set of operating parameters in one data set to the set of operating parameters in another data set.

Please add new claims 26-29 as follows:

26. (New) The method of claim 1, wherein downloading further comprises transmitting an error signal over a communication link from the computer to the pump if verifying the operating parameters fails.

27. (New) The method of claim 26, wherein downloading further comprises discarding the operating parameters transmitted from the computer to the pump and preserving operating parameters already stored into memory in the pump.

28. (New) The method of claim 12, wherein the user-defined identifying name is selected from a list of preprogrammed names.

29. (New) The method of claim 12, wherein the user-defined identifying name is generated by a user.